

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO4LEDXT-20LXXKXWE1-RD4FMWSO-FACY2.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

 [TESTLAB] Photopia 2015.1.1 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUEDATE]

[TESTDATE] Fri Jun 10 2016

[UPDATE] Tue Jan 10 2017

[TEST] SP-00480\_18\_M-20L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO4LEDXT-20L-xxK-XW-E1-RD4F-MW-SO-FACY2

[LUMINAIRE] 4" aperture recessed LED downlight w/ 2"H Frosted Clear Acrylic Cylinder Element

[OTHER] Xtra Wide Beam upper reflector, regressed Solite lens, Matte White lower cone

[LAMP] N/A, Min. 83 CRI

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] LEDXT lumen output is the same for all available color temperatures

[OTHER] This report prepared by Spectrum Lighting, scaled from 40L report

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1286
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.70
Spacing Criterion (90-270)	0.70
Spacing Criterion (Diagonal)	0.66
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 ft (Diameter)
Luminous Height	0.17 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13713	13808	13844
55	10354	10364	10235
65	7708	7787	7769
75	6462	6210	6156
85	4831	4887	5134

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	1793.091	1793.091	1793.091	1793.091	1793.091
<b>5</b>	1758.170	1744.840	1745.577	1760.934	1798.338
<b>10</b>	1676.375	1675.590	1684.972	1679.533	1656.353
<b>15</b>	1438.672	1427.773	1425.274	1427.711	1433.799
<b>20</b>	953.776	952.462	949.121	953.776	951.298
<b>25</b>	569.294	564.286	569.076	562.473	564.894
<b>30</b>	356.346	361.411	358.387	359.655	356.626
<b>35</b>	192.807	194.610	193.399	193.238	192.205
<b>40</b>	152.572	154.437	153.632	152.930	154.307
<b>45</b>	128.571	128.005	129.465	127.735	129.797
<b>50</b>	107.365	108.191	109.168	108.903	107.666
<b>55</b>	91.868	91.666	91.957	91.702	90.814
<b>60</b>	76.055	75.821	75.166	75.265	75.187
<b>65</b>	62.434	63.670	63.078	63.260	62.932
<b>70</b>	53.114	53.363	53.773	53.108	53.841
<b>75</b>	45.758	44.168	43.976	44.194	43.591
<b>80</b>	36.318	35.679	36.495	36.017	35.529
<b>85</b>	28.250	28.640	28.573	28.993	30.017
<b>90</b>	23.855	24.998	23.294	23.897	24.536

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Zone	Lumens	%Lamp	%Fixt
0-20	545.77	N.A.	42.40
0-30	821.98	N.A.	63.90
0-40	961.23	N.A.	74.80
0-60	1143.52	N.A.	88.90
0-80	1253.77	N.A.	97.50
0-90	1285.88	N.A.	100.00
10-90	1120.59	N.A.	87.10
20-40	415.45	N.A.	32.30
20-50	515.60	N.A.	40.10
40-70	245.52	N.A.	19.10
60-80	110.24	N.A.	8.60
70-80	47.01	N.A.	3.70
80-90	32.12	N.A.	2.50
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1285.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	165.29
10-20	380.48
20-30	276.20
30-40	139.25
40-50	100.15
50-60	82.14
60-70	63.23
70-80	47.01
80-90	32.12
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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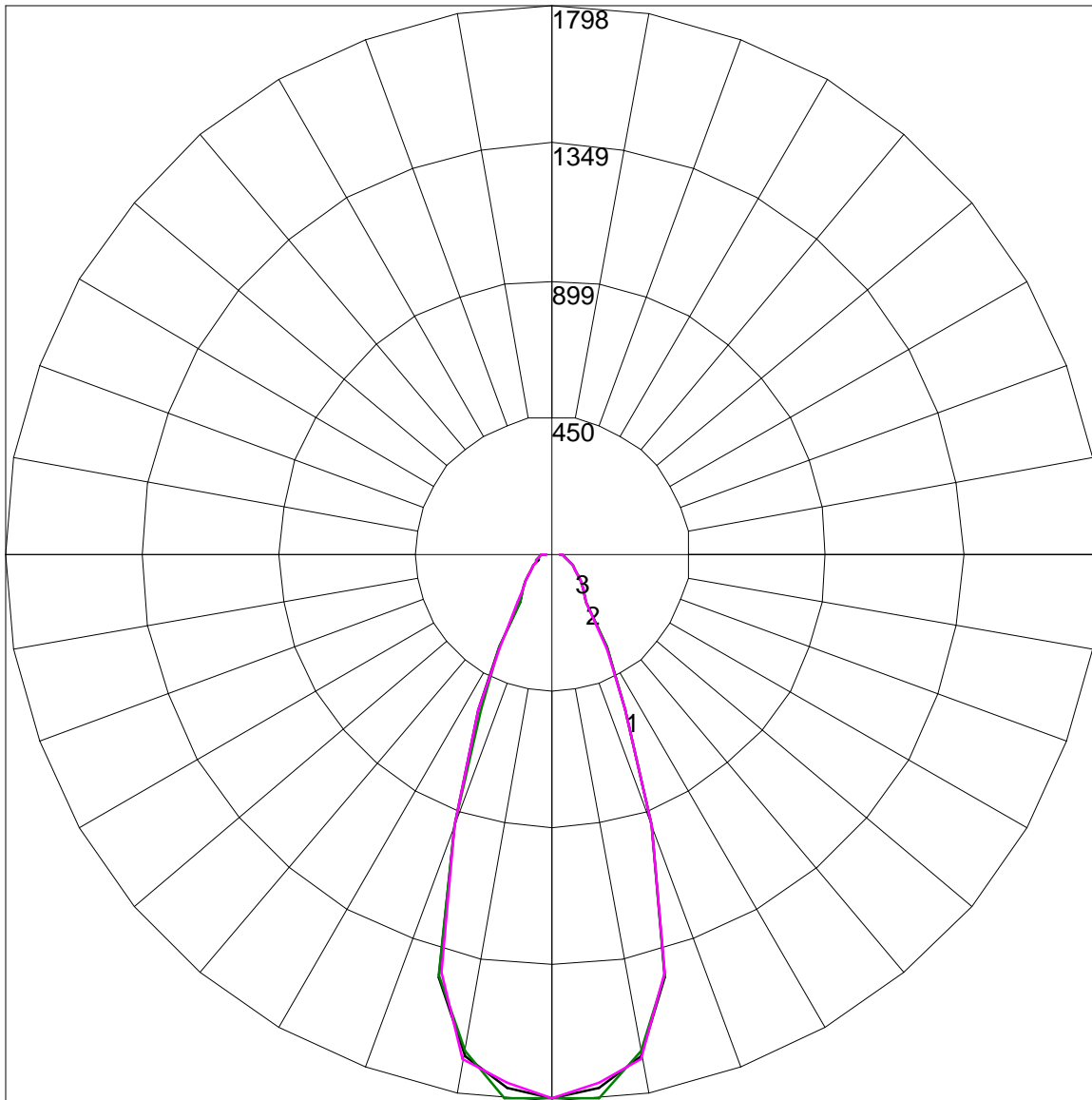
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	98	91	85	80	96	89	84	79	86	82	78	84	80	76	81	78	75	74
4	93	84	78	73	91	83	77	72	81	75	71	78	74	70	77	73	70	68
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59
7	79	69	63	58	78	68	62	58	67	62	57	66	61	57	65	60	57	55
8	76	65	59	54	74	65	59	54	64	58	54	63	58	54	62	57	54	52
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49
10	69	59	53	49	68	58	53	49	58	52	49	57	52	48	56	52	48	47

POLAR GRAPH



Maximum Candela = 1798.338 Located At Horizontal Angle = 90, Vertical Angle = 5

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

# 3 - Vertical Plane Through Horizontal Angles (45 - 225)